

**Listing of Claims and Amendments thereto:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for testing a battery pack of an electric or hybrid vehicle, the battery pack ~~comprising~~ having a plurality of batteries, ~~including the steps of comprising:~~

(a) ~~measuring a first parameter of each a battery of in~~ the battery pack;

(b) ~~selecting the first parameter value of a particular battery of the battery pack;~~

(c) ~~determining an average of first parameter values of the remaining batteries of in~~ the battery pack, the average first parameter value for remaining batteries changing depending on which battery of the battery pack is being tested at a given instant;

(d) ~~determining a resultant value as a function of the isolated first parameter and the average first parameter value of the remaining batteries~~ comparing the measured first parameter value to the average to obtain a result;

(e) ~~providing outputting an alert signal if the resultant value result is not within a predetermined given range, else~~

storing the result of the comparison,

;  
and

(f) ~~repeating (b) through (e) for other batteries in the battery pack.~~ the measuring, determining, comparing and outputting or storing repeated until each battery in the battery pack has been tested.

2. (Original) The method of claim 1, wherein the first parameter is battery conductance.

3. (Original) The method of claim 1, wherein the first parameter is battery impedance.

4. (Cancel) The method of claim 1, further including the step of recording the resultant value of a particular battery comparison.

5. (Cancel) The method of claim 1, wherein the resultant value is the difference between the first parameter of a particular battery and the average first parameter value of the remaining batteries.

6. (Original) The method of claim 1, wherein the alert signal is an audible signal.

7. (Original) The method of claim 1, wherein the alert signal is a visual signal.

8. (Original) The method of claim 7, wherein the visual signal includes a light.

9. (Original) The method of claim 7, wherein the visual signal is shown on a display screen.

10. (Currently Amended)—— A battery management system for managing a battery pack of an electric or hybrid vehicle, the battery pack including a plurality of batteries, the battery management system including comprising:

a first interface component in electrical communication with the battery pack for receiving a first parameter of each battery in the battery pack;

a second interface component in selective electrical communication with the first interface component;

——a circuit processor in electrical communication with the second interface component, the circuit measuring the first parameter of one of the batteries in the battery pack, determining an average of first parameter values of the remaining batteries in the battery pack, the average first parameter value for remaining batteries changing depending on which battery of the battery pack is being tested at a given instant, and comparing the measured first parameter value to the average to obtain a result; adapted to measure a first parameter of each of the batteries of the battery pack and to compare the first parameter of a particular battery to the first parameter of the remaining batteries; and

an output device for signaling an operator if a the result of the respective first parameters are is outside not within a predetermined given range, else

a memory storing the result.

11. (Original) The battery management system of claim 10, wherein the first parameter is battery conductance.

12. (Original) The battery management system of claim 10, wherein the first parameter is battery impedance.

13. (Cancel) The battery management system of claim 10, wherein the result of the first parameter comparison is recorded for each particular battery.

14. (Cancel) The battery management system of claim 10, wherein the circuit further includes:  
a micro-processor;  
a memory in electrical communication with the micro-processor;  
an input in electrical communication with the micro-processor; and  
an output in electrical communication with the microprocessor.

15. (Currently Amended) The battery management system of claim ~~14~~10, ~~wherein further comprising an~~ said input device operatively connected to the processor, the input device configured as at least one of includes a keyboard, keypad and touch screen.

16. (Cancel) The battery management system of claim 14, wherein said input includes a touch screen.

17. (Cancel) The battery management system of claim 14, wherein said output includes a display.

18. (Original) The battery management system of claim 10, wherein the battery management system is selectively in communication with a computer unit.

19. (Original) The battery management system of claim 10, wherein the battery management system is selectively in communication with a network.

20. (Cancel) A method for testing a battery pack of an electric or hybrid vehicle, the battery pack comprising a plurality of batteries, including the steps of:

- B1
- (a) measuring a first parameter, defined as one of battery conductance or battery impedance, of each battery of the battery pack;
  - (b) selecting the first parameter value of a particular battery of the battery pack;
  - (c) determining an average first parameter value of the remaining batteries of the battery pack;
  - (d) determining a resultant value as a function of the isolated first parameter and the average first parameter value of the remaining batteries;
  - (e) providing an alert signal if the resultant value is not within a predetermined range; and
  - (f) repeating (b) through (e) for other batteries in the battery pack.

21. (Cancel) The method of claim 20, further including the step of recording the resultant value of a particular battery comparison.

22. (Cancel) The method of claim 20, wherein the resultant value is the difference between the first parameter of a particular battery and the average first parameter value of the remaining batteries.

23. (Cancel) A battery management system for managing a battery pack of an electric or hybrid vehicle, the battery pack including a plurality of batteries, the battery management system including:

- a first interface component in electrical communication with the battery pack;
- a second interface component in selective electrical communication with the first interface component;

a circuit in electrical communication with the second interface component, the circuit adapted to measure a first parameter, defined as one of battery conductance and battery impedance, of each of the batteries of the battery pack and to compare the first parameter of a particular battery to the first parameter of the remaining batteries; and

an output for signaling an operator if a result of the respective first parameters are not within a predetermined range.

24. (Cancel) The battery management system of claim 10, wherein the result of the first parameter comparison is recorded for each particular battery.

25. (Cancel) A battery management system for managing a battery pack of an electric or hybrid vehicle, the battery pack including a plurality of batteries, the battery management system including:

a first interface component in electrical communication with the battery pack;

a second interface component in selective electrical communication with the first interface component;

a circuit in electrical communication with the second interface component, the circuit adapted to measure a first parameter, defined as one of battery conductance and battery impedance, of each of the batteries of the battery pack and to compare the first parameter of a particular battery to the first parameter of the remaining batteries;

an output for signaling an operator if a result of the respective first parameters are not within a predetermined range;

a micro-processor;

a memory in electrical communication with the micro-processor; an input in electrical communication with the micro-processor; and an output in electrical communication with the microprocessor.

26. (Cancel) The battery management system of claim 25, wherein the battery management system is selectively in communication with a computer unit.

*B1  
Cond* 27. (Cancel) The battery management system of claim 25, wherein the battery management system is selectively in communication with a network.

---